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ABSTRACT OF THE DISCLOSURE

A diagnosis system of an exhaust aftertreatment apparatus for an internal combustion engine is arranged to execute a first deterioration diagnosis of the exhaust  
5 aftertreatment apparatus on the basis of a change of a catalyst downstream side air/fuel ratio relative to a change of a catalyst upstream side air/fuel ratio during a rich spike control and to execute a second  
deterioration diagnosis from an inversion cycle of a  
10 feedback quantity during the feedback control of the catalyst downstream side air/fuel ratio during a stoichiometric control when the first deterioration diagnosis made a deterioration determination.